

CLAIMS

- 1
2 1. An apparatus for validating a wiring diagram
3 comprising:
4 a. a computer having a controller card connected
5 to the computer bus,
6 b. a display unit having a multiplexer card,
7 c. at least one multiple wire connector module
8 electronically connected to said multiplexer
9 card,
10 c. said controller card controlling said
11 multiplexer card.
12
13 2. The invention of Claim 1 wherein said connector
14 module has at least one wire.
15
16 3. The invention of Claim 2 wherein said apparatus has
17 a first connector module and a second connector
18 module, and said first connector module and said
19 second connector module are electronically combined
20 into a single connector module.
21
22 4. A process for creating a wire list comprising the
23 steps of:
24 a. a controller sends a command to a multiplexer
25 card to select two wires,
26 b. sending a voltage at low current through the
27 two wires,
28 c. said multiplexer card determines the status of
29 the wires as being open or short,
30 d. said multiplexer card measures the value and
31 compares it to a set reference and determines
32 the status as being open or short, and
33 e. stores the results of the selected two wires
34 and proceeds with the next set of wires.

- 1
2 5. A process for validating a wiring diagram manual
3 contained in a software database comprising the
4 steps of:
5 a. copy said wiring diagram manual database to a
6 temporary file,
7 b. sort said file by connector name with the
8 highest pin count pins within the connectors
9 sorted in ascending order,
10 c. assign manual pins to a test pin,
11 assign modules to said connectors, if said
12 connector has more than 32 pins
13 combine modules,
14 e. create diagram manual to test interface
15 diagram,
16 f. create a test learn format record and save to
17 test random access file, run test, create wire
18 list database in a compatible format as said
19 diagram manual, said wire list database having
20 the actual wire list,
21 i. if test locates differences between diagram
22 manual and said tested wires, display the
23 differences between original wire list and
24 actual wire list.
25